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CLAIMS

Peptides consisting of 16 to 55 amino acid residues, said peptide comprising at least one of the sequences LACYYTSWS (SEQ ID NO:60), FLCTHIIYS NO:61), IIYSFANIS (SEQ ID NO:62), LKTLLSVGG (SEQ NO:63), FIKSVPPFL (SEQ ID NO:64), FDGLDLAWL (SEQ ID NO: 65), LYPGRRDKQ (SEQ ID NO:66), YDIAKISQH (SEQ ID NO:67), LDFISIMTY (SEQ ID NO:68), FISIMTYDE (SEQ ID NO:69), 10 FRGQEDASP (SEO ID NO:70). YAVGYMLRL (SEQ ID NO:71), ij MLRLGAPAS (SEQ ID NO:72), LAYYEICDF (SEQ ·ID NO:73), [N LRGATVHRT (SEQ ID NO:74), YLKDRQLAG (SEO ID NO:75), LAGAMVWAL (SEQ ID NO:76), VWALDLDDF (SEQ ID NO:77) or ١., LDLDDFQCS (SEQ ID NO:78). LΠ

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of 16 to 55 amino acid residues, said least one of the amino peptide comprising at sequences YKLVCYYTSWSQYREG (SEQ ID NO:1), YTSWSQYREGDGSCFP (SEO ID NO:2), LDRFLCTHIIYSFANI (SEQ ID NO:5). THIIYSFANISNDHID (SEQ ID NO:6), PNLKTLLSVGGWNFGS (SEQ ID NO:12), NTQSRRTFIKSVRPFL (SEQ ID NO:16), TFIKSVPPFLRTHGFD (SEO ID NO:17), PRFLRTHGFDGLDLAW (SEQ ID NO:18), HGFDGLDLAWLYPGRR (SEQ ID NO:19), DLAWLYPGRRDKQHFT (SEQ ID NO:20), TIDSSYDIAKISQHLD \(SEQ ID NO:28), DIAKISQHLDFISIMT (SEO ID NO:29), QHLDF1; MTYDFHGA (SEO ID NO:30), SPLFRGQEDASPDRFS (SEQ ID NO: 34), DYAVGYMLRLGAPASK (SEO ID NO:37), MLRLGAPASKLVMGIP (SEQ\ID NO:38), PASKLVMGIPTFGRSF GTLAYYEICDFLRGAT (SEQ ID NO:46), (SEO ID NO:39), EICDFLRGATVHRTLG (SEQ ID NO:47), RGATVHRTLGQQVPYA (SEQ ID NO:48), VKSKVQYLKDRQLAGA (SEQ ID NO:53), YLKDRQLAGAMVWALD (SEQ ID NO:54), LAGAMVWALDLDDFQG (SEQ ID NO:55),

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WALDLDDFQGSFCGQD (SEQ ID NO:56) DFQGSFCGQDLRFPLT (SEQ ID NO:57).

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Peptide according to claim 1 of 2, said peptide comprising at least one of the amino acid sequences YKLVCYYTSWSQYREG (SEQ ID NO:1), YTSWSQYREGDGSCFP (SEQ ID NO:2), LDRFLCTHILYSFANI (SEQ ID NO:5) THILYSFANISNDHID (SEQ ID NO:6), PNLKTLLSVGGWNFGS (SEQ ID NO:12), QHLDFISIMTYDFHGA (SEQ ID NO:30), SPLFRGQEDASPDRFS (SEQ ID NO:34), DYAVGYMLRLGAPASK (SEQ ID NO:3V), MLRLGAPASKLVMGIP (SEQ ID NO:38), YLKDRQLAGAMVWALD (SEQ ID NO:54)

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Peptide according to any of claims 1 to 3, said peptide comprising at least one of the amino acid sequences YTSWSOYREGDGSCFP (SEO ID NO:2), SPIFRGOEDASPDRFS (SEO ID

YTSWSQYREGDGSCFP (SEQ ID NO:2), SPIJFRGQEDASPDRFS (SEQ ID NO:34), MLRLGAPASKLVMGIP (SEQ ID NO:38), YLKDRQLAGAMVWALD

(SEQ ID NO:54) or LAGAMVWALDLDDFQG (SEQ ID NO:55)

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Hexadecapeptide according to claim 1 to 4, said hexadecapeptide consisting of one of the amino acid sequences YKLVGYYTSWSQYREG (SEQ ID NO:1) YTSWSQYREGDGSCFP (SEQ ID NO:2), bdrflcthiiysfani (SEQ ID NO:5), THIIYSFANISNDHID (SEQ ID NO:6), PNLKTLLSVGGWNFGS (SEQ ID NO:12), QHLDFISIMTYDFHGA (SEQ ID NO:30), SPLFRGQEDASPDRFS (SEQ ID NO:34), DYAVGYMLRLGAPASK (SEQ ID NO:37), MLRLGAPASKLVMGIP (SEQ ID NO:38), YLKDRQLAGAMVWALD (SEQ ID NO:54) or LAGAMVWALDLDDFQG (SEQ ID NO:55).

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6. Peptide according to any of the claims 1 to 5 for use as a

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7. Pharmaceatical composition comprising one or more peptides according to any of the claims 1 to 5, and a Charmaceutical acceptable carrier.

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autoreactive T cells comprising the following steps: a) isolation of the peripheral blood mononuclear cells (PBMC) from a blood sample of an individual, b) culture of said PBMC under suitable conditions, c) incubation of said PBMC culture in the presence of one or more peptides according to any of the claims 1 to 5, and d) detection of a response of T cells, for example a proliferative response, indicating the presence of activated autoreactive T cells in the individual.

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9. Testkit, for the detection of activated autoreactive T cells, said test kit comprising one or more peptides according to any of the claims 1 to 5.

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